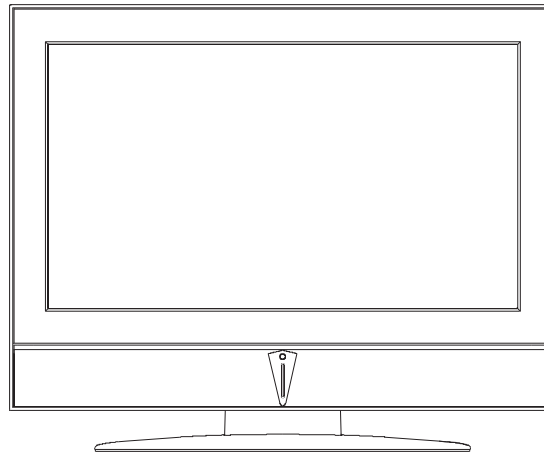




# **19" / 22" WIDE SCREEN TFT-LCD MONITOR**



## **V195MV / V221MV USER MANUAL**

[www.viewera.com](http://www.viewera.com)

Rev 1.0

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## EMC COMPLIANCE

This device has been tested and found to comply with the standards for a class B digital device, pursuant to Part 15 of FCC Rules. Those standards are designed to provide reasonable protection against harmful interference in a residential installation. This device generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, user is encouraged to try to correct the interference by one or more of the following measures:

- > Reorient or relocate the receiving antenna
- > Increase the separation between the device and receiver
- > Plug the device into a wall outlet different from that connected to the receiver.
- > Consult the dealer or an experienced technician for help.

**CAUTION:** any change or modification not expressly illustrated in this manual may void the warranty.

**NOTE:** any unshielded cable is not allowed to be used in the device.

## Important Safety Instructions

Thank you for selecting ViewEra's high performance, multi-function LCD monitor . To ensure your safety and extend product life, please read and follow the instructions before using it, and comply with the following safety cautions:

- 1) To avoid electric shock, never touch the inside of the monitor. Only a qualified technician should open the monitor case.
- 2) Keep the manual for future use.
- 3) Follow all the warnings and instructions strictly on the manual.
- 4) It is high dangerous voltage inside the product. Do not attempt to repair the product by yourself.
- 5) This monitor is equipped with a three-wire grounding type of power source indicated on the marking label. If the plug can't be inserted into the outlet, please contact a technician for replacing the original outlet to keep the safeguard measure in effect.
- 6) Do not allow water or other liquids to spill on or into the LCD monitor
- 7) Don't use the attachments which are not recommended by the monitor manufacturer as they may cause hazards.
- 8) Do not rest anything on the power cord. If the power cord is damaged, do not use the monitor.
- 9) Don't overload outlets or extend cords as it can result in fire or electric shock.
- 10) If you want to disconnect the power cord from the product, be sure to grasp the plug, not the cable.
- 11) Unplug the monitor when it is going to be left unused for an extended period of time.
- 12) Place the monitor in a place of good ventilation, low humidity and dust environment, and avoid direct sunlight.
- 13) The openings on the back cover are designed for ventilation. To prevent overheating, do not block or cover these openings.

surface .Don't place the machine near or over heat source or place in built-in installation.

- 14) Unplug your monitor from the electric outlet before any service is performed.
- 15) Don't use solvents, like ethyl alcohol, acetone, ethanol and hexane to clean the surface of LCD screen.
- 16) Don't place the machine near water source such as bathtub, washbowl, sink, laundry tub, swimming pool, etc.
- 17) The LCD panel is made of glass, the surface of screen is easy to be frayed. Don't knock or press on the surface of the panel with finger or other objects, otherwise it can result in damage to the panel.
- 18) Don't remove or open the cover by yourself. It may expose you to dangerous voltage or other hazards .
- 19) Do not put the monitor at the place where user is subject to mal-operation.
- 20) High temperatures can cause problems. Keep the monitor away from heaters, stoves, fireplaces, etc.
- 21) Please keep the foam and box of package for future use. These are ideal packing material for transportation.
- 22) Unplug this machine from the outlet and refer servicing to qualified service personnel under the following conditions:
  - A. The power cord is frayed or damaged.
  - B. The monitor has been dropped or the cabinet has been damaged.
  - C. When the performance of the monitor deteriorates distinctly.
  - D. If liquid has been spilled into the machine.

# 1. INTRODUCTION

## General information

- HDMI supports 1080 p/i, 720 p, 576 p/i, 480 p/i video signal.
- Support HDCP (High-bandwidth Digital Content Protection)
- Featured built-in speakers, they will give you audio enjoyment and save your space.
- With multiple connectors, you may directly connect it to your DVD player, VCR or game console, etc. The Components Video input connectors let you enjoy beautiful image quality. The monitor can be used as a computer monitor with VGA or HDMI connectors, which can display at resolution of 1680X1050.
- Fast response time will completely eliminate shadow of picture. Watching films and playing games can be more smooth.
- Wide viewing angle, high brightness, high contrast and lower power consumption
- Intelligent image mode and sound mode can offer you intelligent audio and visual effects.
- Built-in digital comb filter makes image more clear. The internal 3D De-Interlace technology can totally eliminate the screen dithering caused by interlace signals.
- With sleep timer, you can set time to turn off. It will be turned off in state of no signals, too.
- Convenient use with a remote control
- Auto-setup function help you set the image to best performance
- Auto color balance adjustment makes your monitor to display an optimal color setting for different kinds of display device.
- Advanced noise reduction technology can greatly eliminate background noise and make the picture clear.

## 2. Package Contents

Unpack the package and check if you have the following items.

- TFT-LCD monitor (19 inch for V193 series; 22 inch for V220 series)
- VGA signal cable
- Audio cable
- Power cord
- Remote control
- User manual

**If any of the items is missing, please contact with your dealer at which you purchased the monitor.**

### 3. Installation

Note: Disconnect the power plug while installing the monitor. Plug the power plug after cable connections are done.  
You can find more connectors when you take off the cover board on the left of the rear cover [Fig.2]

- Component connection [Fig.1]

Connect Y, Pb/Cb, Pr/Cr Video Out on a video player to the monitor Y, Pb/Cb, Pr/Cr Video In, and then connect Audio Out left and right on a video player to the monitor Audio In left and right.

- AV connection [Fig.2]

You can also watch video by connecting composite AV connectors. Connect one end of the cable to Audio/ Video Out on a video player, and the other end to the Audio/ Video In on the monitor.

- Computer connection [Fig.2]

You can use a VGA or HDMI Male-to-DVI Male cable to connect the monitor to your computer. For PC audio, you can plug one end of the audio cable to PC Audio on the monitor, and then plug the other end into the audio input on your computer.

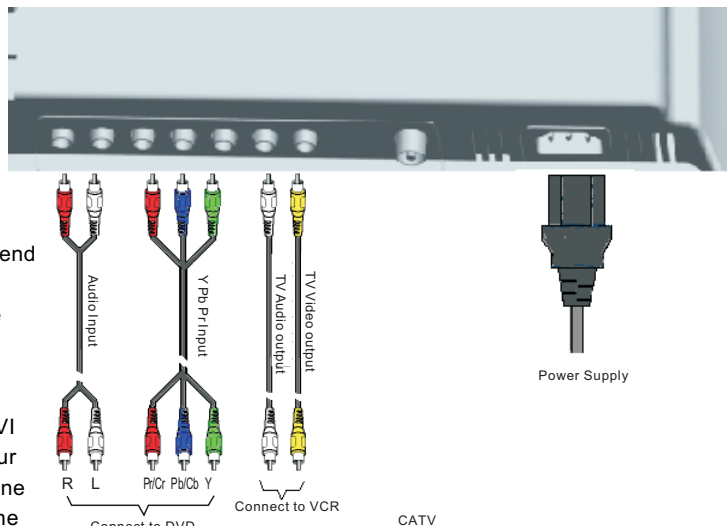


Fig.1



- Power Cord Connection

Plug one end of the power cord into the monitor power jack and then plug the other end into the outlet.

- Earphone connection [Fig.2]

When you enjoy music with earphone, you can insert the plug of earphone into earphone jack on the monitor. Then the monitor will automatically mute the speakers.

- Base installation

Please refer to Fig.3, Fig.4

**Note:** HDMI connector can recognize DVI signal via a HDMI Male-to-DVI Male cable.

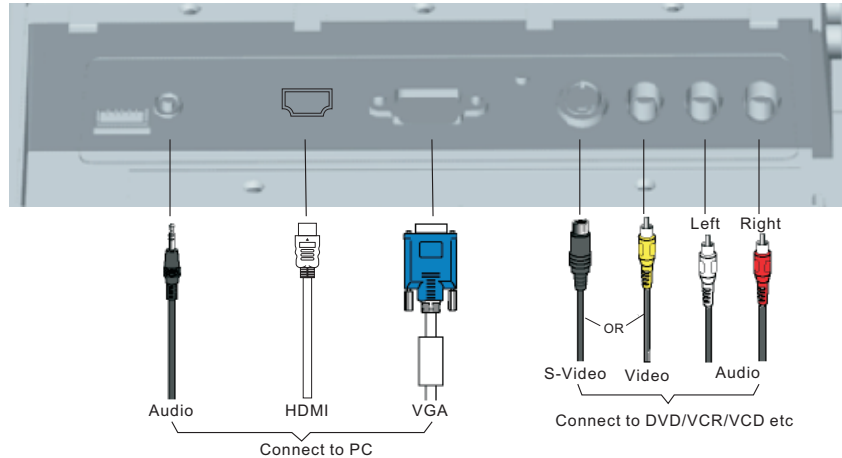
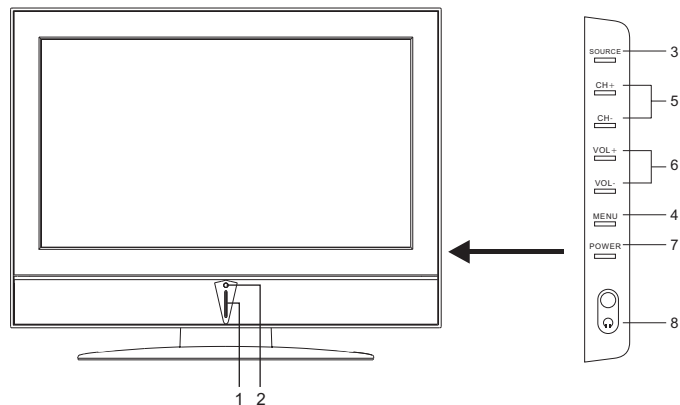




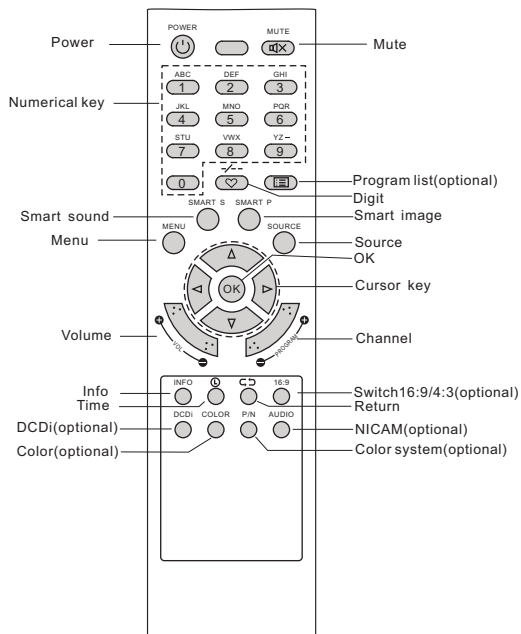
Fig.2

## 4. Front Panel Control Keys



- 1) Power Indicator
- 2) IR Sensor: It is to receive signals from remote control.
- 3) Signal Source: press this key to enter the menu of signal source and choose signal source.
- 4) Menu: press this key to enter main menu
- 5) CH+/CH-: Press these two keys to adjust the options you need under OSD operation.
- 6) VOL+/VOL-: Press these two keys to adjust the analog value under OSD operation.
- 7)  Power On/Off
- 8)  Earphone Socket: The TV speakers will be shut off when earphone is plugged into this socket.

## 5. Remote Control



Remote Control

Key	Function
Power	Turn on or standby
Info	System information display switch
Mute	Mute sound; press again to restore sound
Timer	Time setting button
Numerical key	Number input button
Program list	Scan or set program list
Digit	Change digit
Cursor	Up or down cursor button: function select; left or right cursor button: analog add or reduce.
OK	Confirm actions
Channel	Select higher or lower channel number
Volume	Increase or decrease volume
Menu	Press this menu button to display menu
Source	Press this button to display signal source selection menu
Smart sound	Intelligent sound mode selection
Return	Press this button to return to last channel
Smart image	Intelligent image mode selection

## 6. Basic Operations

### Power On

Plug power cord into the outlet and press "⏻" key on the front panel or press "Power" key on the remote control to turn on the monitor.

### Signal Source Selection

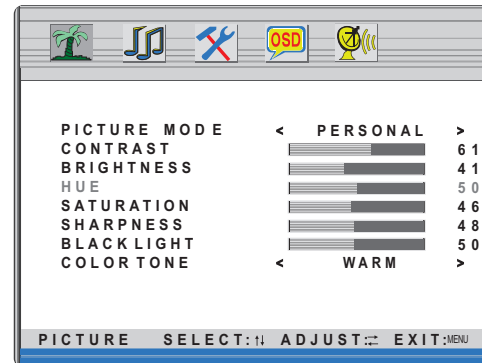
Press "SOURCE" key either on the remote control or on the front panel. "INPUT SOURCE" will be displayed on the screen. Then press "Up/Down" key on remote control or "CH+/CH-" key on the front panel to choose the signal source such as TV(optional) AV, S-VIDEO, YPBPR, PC, HDMI. Press "OK" key on the remote control or "MENU" key on the front panel to switch the signal source.




## OSD Menu

Press "MENU" key on the remote control or on the front panel. The monitor will display the main menu.

1. Press "Left/Right" key on the remote control or "VOL+/VOL-"key on the front panel to select the submenu, which includes PICTURE SOUND ADVANCE SYSTEM TV-CHANNEL (optional).
2. Press "Down"key on the remote control or "CH-" on the front panel to enter the submenu.
3. Press "Up/Down" key on the remote control or "CH+/CH-" on the front panel to select what is needed to adjust in submenu.
4. Press "Left/Right" key on the remote control or "VOL+/VOL-"on the front panel to adjust the value or setting.
5. Press "Menu" key to exit the main menu when the monitor displays Main Menu. Press "Menu" key to return to previous menu when the monitor displays the sub-menu. Press "Source"key to display the signal source menu.
6. During the operation, the selections which can not be adjusted at current mode will be hidden automatically and the color of the selections will be changed into gray.



## Picture Adjustment

Select  to enter the Picture Adjustment submenu. Press "Up/Down" key on the remote control or the key "CH+/CH-" on the front panel to choose what you need. Press the "Left /Right "key" on the remote control or the "VOL+/VOL-" key on the front panel to adjust analog value or state (see below table).

### ★Attention

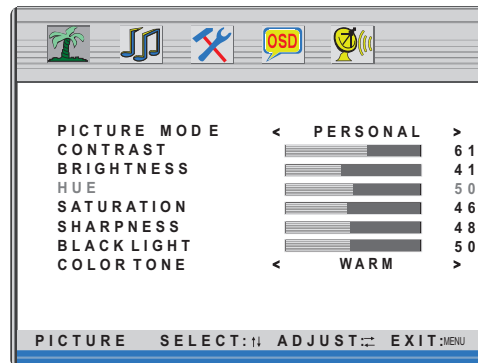
1. The Hue function is available only for NTSC system.
2. The value adjusted by user, such as Contrast, Brightness, Saturation, Hue, and Sharpness, will be saved automatically by the machine as user's defined mode.
3. You can adjust Brightness, Contrast, Sharpness, Black Light, only in personal model.

### ★Remote Control Shortcut Keys

#### **Smart Picture : SMART P**


Press SMART P key on the remote control. You can switch the function among the "STANDARD", "DYNAMIC", "SOFT", "PERSONAL" four states .

**16:9:** Press 16:9 key on the remote control, you can switch the mode among the "FULL", "ZOOM", "ZOOM2", "NORMAL" and "PANORAMA"



Option	Function	Description
PICTURE MODE	Select picture mode	"STANDARD", "DYNAMIC", "SOFT", "PERSONAL" four states.
CONTRAST	Adjust the contrast of whole picture	Increasing analog value increases Contrast; Decreasing analog value decreases Contrast(0-100).
BRIGHTNESS	Adjust brightness and blackness of whole picture	Increasing analog value increases brightness; Decreasing analog value decreases brightness(0-100).
HUE	Adjust the hue of whole picture	Increasing analog value increases green; Decreasing analog value increases purple(0-100).
SATURATION	Adjust the saturation of whole picture	Increasing analog value increases color; Decreasing analog value decreases color (0-100).
SHARPNESS	Adjust the sharpness of whole picture	Increasing analog value increases definition; Decreasing analog value decreases definition (0-100).
BLACK LIGHT	Adjust the black light of whole picture	Increasing analog value increases black light; Decreasing analog value decreases black light (0-100).
COLOR TONE	Select color tone mode of the picture	There are three Color Temperature modes, "NORMAL", "WARM", "COOL".

## Sound Adjustment

Select  to enter the SOUND submenu. Press "Up/Down" key on the remote control or the key "CH+/CH-" on the front panel to choose what you need. Press the "Left / Right" key on the remote control or the "VOL+/VOL-" key on the front panel to adjust analog value or state (see below table).

### ★Attention

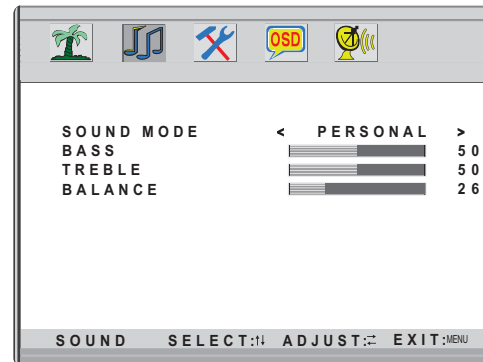
1. Normally, the value of 50 is recommended;
2. The treble or bass analog value which is adjusted by the users will be saved under the user-defined mode.
3. You can adjust bass and treble only in personal mode.

### ★Remote Control Shortcut Keys

**Smart Sound:** SMART S

**MUTE:** MUTE

**VOLUME:** VOL+, VOL-




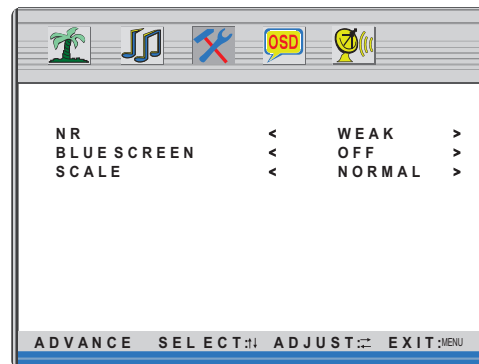
Press SMART S key on the remote control. You can switch the mode among the "PERSONAL", "STANDARD", "NEWS" and "MUSIC".

Item	Function	Description
SOUND MODE	Adjust audio effect mode	"PERSONAL", "STANDARD", "NEWS", "MUSIC" four states.
BASS	Adjust bass value	Increasing analog value increases bass; Decreasing analog value decreases bass (0-100).
TREBLE	Adjust treble value	Increasing analog value increases treble; Decreasing analog value decreases treble (0-100).
BALANCE	Adjust balance of left or right sound	Increasing analog value decreasing left volume; Decreasing analog value decreases right volume(0-100).




## Advance Settings

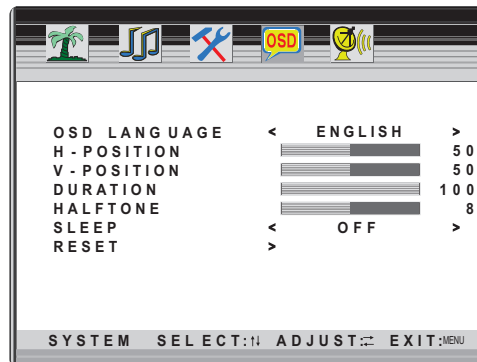
Select  to enter the ADVANCE submenu. Press "Up/Down"key on the remote control or the key "CH+/CH-" on the front panel to choose what you need. Press the "Left / Right"key on the remote control or the "VOL+/VOL-" key on the front panel to adjust analog value or state (see below table).



Option	Function	Description
NR	Adjust model of NR	"WEAK", "MIDDLE", "STRONG", "OFF".
BLUE SCREEN	Open or close BLUE SCREEN	"ON/OFF", two states.
SCALE	Select picture scale of the picture.	"FULL", "ZOOM", "ZOOM2", "NORMAL", "PANORAMA",

## System Settings

Select  to enter the SYSTEM submenu. Press "Up/Down" key on the remote control or the key "CH+/CH-" on the front panel to choose what you need. Press the "Left / Right" key on the remote control or the "VOL+/VOL-" key on the front panel to adjust analog value or state (see below table).



Option	Function	Description
OSD LANGUAGE	Choose OSD menu display language	There are many languages to select
H-POSITION	Adjust H-position of OSD menu	Increasing analog value, OSD menu move toward right; Decreasing analog value, OSD menu move toward left (0-100).
V-POSITION	Adjust V-position of OSD menu	Increasing analog value, OSD menu move toward down; Decreasing analog value, OSD menu move toward up (0-100).
DURATION	Adjust duration of OSD menu	Increasing analog value, extend duration time of OSD menu; (0-100).
HALFTONE	Adjust halftone of whole picture	Increasing analog value increases halftone; Decreasing analog value decreases halftone (0-8).
SLEEP	Set sleep time of the machine	Off, 15, 30, 45, 60, unite: minute.
RESET	Resume to setting of factory	Reset all values to setting of factory.

## **7. Warranty & Customer Service**

ViewEra warrants the V195 and V221 series TFT-LCD monitors for 1 year on LCD panel, parts and labor. For detailed information, please refer to our website. ([http:// www.viewera.com/warranty.htm](http://www.viewera.com/warranty.htm))

Contact your ViewEra retailer or ViewEra for after sale service.  
You may contact ViewEra Customer Service for technical support or RMA:

1. By Mail: ViewEra Corp.  
20526 Carrey Road  
Walnut, CA 91789
2. By Telephone: (800)900-6098 ( Business hours-- 9:00 am – 6:00 pm PST, Mon – Fri. )
3. By E-mail - Tech. Support: [support@viewera.com](mailto:support@viewera.com); RMA: [rma@viewera.com](mailto:rma@viewera.com)

## **8. Registration**

To receive the full warranty applicable to your purchase, you need to get on our website to fill out the online registration form in Support - <http://www.viewera.com/registration.htm> , and then email or fax us your purchase invoice. (Email: [cs@viewera.com](mailto:cs@viewera.com); Fax: (909)595-3708 )

## 9. Troubleshooting

### 1) No image

- Check if the power cord is well connected.
- If the monitor power is on but no picture shows on the screen, please contact [support@viewera.com](mailto:support@viewera.com) for assistance.

### 2) “No Input Signal” appears.

- Check if the signal cable is tightly connected between the monitor and your video player/ device.
- Check if your video card driver is correctly installed when the problem happen on VGA connection.

### 3) The image is blurry or not positioned correctly under VGA connection.

- Enter the Image menu in the OSD and then select “AUTO SIZE” to adjust the display to optimum. Reset your monitor to its native resolution of 1440 by 900 for V195 series or 1680 by 1050 for V221 series.

### 4) The color is abnormal

- Check the connection of signal cable and make sure the two screws on the connector are securely tightened.
- Check if there is any pin on the signal cable bent or broken off. If there is, it is required to replace the signal cable.
- Enter the COLOR MODE menu and select different preset color hue.

## 10. Specifications

Model Features	V221 Video Series	V195 Video Series
Panel Type	Active TFT-LCD	Active TFT-LCD
Panel Size	22" diagonal	19" diagonal
Pixel Pitch	0.282 (W) × 0.282(H) mm	0.2835 (W) × 0.2835 (H) mm
Brightness	300 cd/ m <sup>2</sup> (typical)	300 cd/ m <sup>2</sup> (typical)
Contrast Ratio	1000:1 (typical)	800:1 (typical)
Response Time	5 ms (gray to gray, typical)	5 ms (on/ off, typical)
Viewing Angle (H / V)	170°/160° (typical)	160°/160° (typical)
Max. Resolution	1680 (W) x 1050 (H)	1440 (W) x 900 (H)
Display Color	16.7 M	16.7 M
Display Area	18.65 (W) x 11.66 (H) inches	16.07 (W) x 10.04 (H) inches
Dimensions (unit size)	20.67" (W) x 16.77" (H) x 3.14" (D)	18.11" (W) x 15.11" (H) x 3.14" (D)
Weight	N.W.: 15.4 lbs; G.W.: 18.7 lbs	N.W.: 13.2 lbs; G.W.: 16.5 lbs
Power Consumption	48 watts (maximum)	45 watts (maximum)
Power Supply Input Voltage	100-240V /60-50Hz	100-240V /60-50Hz
Built-in Speakers	5 Watts x2	5 Watts x2
Frequency – Horizontal	31KHz ~ 96 KHz	30KHz ~ 81 KHz
– Vertical	56 ~ 76 Hz	55 ~ 75 Hz
Wall Mount	VESA 75 bracket (screw spec.: M4x8)	VESA 75 bracket (screw spec.: M4x8)
Safety Certificate	FCC, CE, CB	FCC, CE, CB
HDCP	Support	Support

Model Features	V221 Video Series	V195 Video Series
Supported Resolution on VGA mode	640 x 480 @ 60, 72, 75 Hz 720 x 400 @ 70 Hz 800 x 600 @ 60, 72, 75 Hz 1024 x 768 @ 60, 70, 75 Hz 1152 x 864 @ 75 Hz 1280 x 768 @ 60, 70, 75 Hz 1280 x 960 @ 60 Hz 1280 x 1024 @ 60, 75 Hz 1600 x 1200 @ 60 Hz 1680 x 1050 @ 60 Hz	640 x 480 @ 60, 72, 75 Hz 720 x 400 @ 70 Hz 800 x 600 @ 60, 72, 75 Hz 1024 x 768 @ 60, 70, 75 Hz 1152 x 864 @ 75 Hz 1280 x 768 @ 60, 70, 75 Hz 1280 x 960 @ 60 Hz 1280 x 1024 @ 60, 75 Hz 1440 x 900 @ 60 Hz
Recommended resolution	1680 x 1050 @ 60 Hz	1440 x 900 @ 60 Hz
Operating/ Storage Conditions:	Operating: 5°C ~ 40°C; 10%-85% RH / Storage: -20°C ~ 55°C; 5%-95% RH	
HDMI x1	Video signal: 1080 p/ i, 720 p, 576 p/ I, 480 p/ i Audio: LCPM – 88.2 KHz, 48 KHz, 44.1 KHz, 32 KHz	
Component (Y/Pb/Pr) x1	Y: 75 Ohm, 1Vp-p; Pb/Pr: 75 Ohm, 0.7Vp-p Video signal: 1080 p/ i, 720 p, 576 p/ I, 480 p/ i	
VGA x1	D-sub 15 pin, 75 Ohm, 0.5~0.7 Vp-p; H/V: TTL level	
S-Video x1	Y: 75 Ohm, 1Vp-p; C: 75 Ohm 0.286 Vp-p	
CVBS (AV In x1; AV Out x1)	75 Ohm, 1Vp-p (NTSC/PAL/SECAM)	
Audio In x1 / Audio Out x1	20K Ohm, 0.5Vp-p	
Earphone	16 ~ 300 Ohm, 100mW + 100mW	

**Resolution and refresh rate for V195 series on HDMI connection**

NO.	Mode	Resolution	Refresh(Hz)
1	VGA	640X480	60Hz
2	SVGA	800X600	
3	XGA	1024X768	
4	WXGA	1440X900	
5	VIDEO	720X480 progressive/interlacing	50Hz
6		720X576 progressive/interlacing	
7		1280X720 progressive	50Hz
8		1280X720 progressive	60Hz
9		1920X1080 progressive/interlacing	50Hz
10		1920X1080 interlacing	60Hz

**Resolution and refresh rate for V221 series on HDMI connection**

NO.	Mode	Resolution	Refresh(Hz)
1	VGA	720X400	70Hz
		640X480	60Hz
2	SVGA	800X600	
3	XGA	1024X768	
4	SXGA	1360X768	
5	VIDEO	720X480 progressive/interlacing	50Hz
6		720X576 progressive/interlacing	
7		1280X720 progressive	50Hz
8		1280X720 progressive	60Hz
9		1920X1080 progressive/interlacing	50Hz
10		1920X1080 interlacing	60Hz